

Sub 1 40. (New) A DNA for use in securing expression in a procaryotic or eucaryotic host cell of a polypeptide product consisting of an amino acid sequence selected from among (according to the numbering as presented in Figure 2):

- (a) amino acids -26 through 194;
- (b) amino acids 1 through 194;
- (c) a polypeptide of subpart (a) or (b) wherein one or more cysteine residues is deleted or replaced by another amino acid;
- (d) a polypeptide of subpart (a) or (b) wherein one or more tyrosine residues is replaced by phenylalanine;
- (e) a polypeptide of any of subparts (a), (b), (c) or (d), lacking residues -26 through -1, and having a methionyl residue at position -1.

2 41. (New) A cDNA sequence according to claim *1* 40.

~~42. (New) A genomic DNA sequence according to claim 40.~~

3 43. (New) A DNA sequence according to claim *1* 40

including one or more codons preferred for expression in E. coli cells.

~~*4* 44. (New) A DNA sequence according to claim *1* 40~~

including one or more codons preferred for expression in yeast.

45. (New) A DNA sequence according to claim 40 wherein said polypeptide of subpart (c) has at least one cysteine residue replaced by an amino acid selected from alanine and serine.

~~5~~₄₆. (New) A DNA sequence according to claim ~~1~~₄₀ associated with a detectable label substance.

~~6~~₄₇. A biologically functional plasmid or viral vector including a DNA sequence according to claim ~~1~~₄₀.

Sub. 42
~~48~~. A procaryotic or eucaryotic host cell transformed or transfected with a DNA sequence according to claim 40 in a manner allowing the host cell to express said polypeptide product.

Sub. 43
~~49~~. A process for the production of a polypeptide selected among (according to the numbering as presented in Figure 2):

- (a) amino acids -26 through 194;
 - (b) amino acids 1 through 194;
 - (c) a polypeptide of subpart (a) or (b) wherein one or more cysteine residues is deleted or replaced by another amino acid;
 - (d) a polypeptide of subpart (a) or (b) wherein one or more tyrosine residues is replaced by phenylalanine;
 - (e) a polypeptide of any of subparts (a), (b), (c) or (d), lacking residues -26 through -1, and having a methionyl residue at position -1;
- said process comprising:
- growing, under suitable nutrient conditions, procaryotic or eucaryotic host cells transformed or transfected with a DNA according to claim 40, and isolating desired polypeptide products of the expression of DNA sequences in said vector.

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50. A DNA molecule according to Figure 2, which encodes a polypeptide selected from among (according to the numbering as presented in Figure 2):

- (a) amino acids -26 through 194; and
- (b) amino acids 1 through 194.

51. A DNA molecule according to claim 50 subpart (b) with an additional codon encoding a methionyl residue at position -1.

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Amendments to the Claims

Applicants have provided a new set of claims.

Support for claim 40, subparts (a), (b) and (c) is found in Figure 2. Additional support is found at Specification page 10, line 32.

Support for claim 40 subpart (d) is found, for example, at Specification page 11, lines 20-22.

Support for claim 40, subpart (e) is found, for example, at Specification page 11, lines 23-26.

The dependent claims correspond to the claims as previously pending. Claims 49 - 51 are supported similarly to claim 40.

Rejections Pursuant to 35 USC 112

It is believed that above new claims obviate the Examiner's concerns regarding the outstanding rejection pursuant to 35 USC 112. The outstanding rejection related to specific terms used in the previous claims. For purposes of